

Date : 06/19/2025  
Project No : 2024C217  
Client Company : Artisan  
Arrival Time : 06/19/2025 8:00  
Onsite Hours : 08:30

ASEC Report ID : 82742  
Name of the Project : Naturewalk - 7 Hills Amenities  
Project Location : Dallas  
Weather : cloudy  
Departure Time : 06/19/2025 16:30  
ASEC Technician Name : Aminullah Azimi

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As requested, a representative of AS Engineering & Consulting (ASEC) conducted a site visit to perform quality control inspection and testing services. Visual observation techniques were employed to verify compliance with project drawings/specifications, applicable codes, and approved material submittals.

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## 2. Earthwork Activities

- Placement and compaction of backfill materials were in progress in the following locations:
    - Water line trench at the entrance/pit area.
    - Backfill behind Retaining Wall #1.
  - During the observation, active placement of fill material was observed being performed in 1-foot lifts. Compaction was executed using a 12-ton sheeps-foot roller and trench compactors.
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## 3. Compaction Testing

- Compaction testing was carried out using a Troxler nuclear density gauge in accordance with **ASTM D6938**.
- Additional verification was conducted with general probing, using a 3/8-inch diameter probe rod.

### Test Results:

- **Water Line Trench:**
    - Did **not** achieve the specified minimum 95% relative compaction based on maximum dry density (MDD) per the Standard Proctor method (ASTM D698).
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- Moisture content exceeded the specified permissible range, indicating the soil was overly wet.

- **Retaining Wall #1 Backfill:**

- Achieved the specified minimum 95% relative compaction per ASTM D698.
- Our ASEC representative arrived on site to observe the placement of MSE retaining walls #1. It was noted that behind the block and in the cells, No. 57 stone was used.

Every 2<sup>nd</sup> course a geotextile fabric was placed followed by an 8-inch compacted lift.

No. 57 stone was utilized 1-foot behind the block and within the cells.

No remedial recommendation was made.

**Notes:**

- Moisture content was **above** the specified range. Under this condition, soils require scarification and aeration (moisture correction) prior to re-compaction. The contractor was notified but **did not implement corrective action**. Consequently, the trench was backfilled without achieving the required compaction.

## 4. Recommendations & Required Remediation

1. **Undercut and Remove Non-Conforming Material**

Excavate the inadequately compacted zones around the water line to a depth sufficient to remove all non-conforming soils.

2. **Moisture Conditioning**

Adjust the moisture content of the excavated soil to within  $\pm 2\%$  of the laboratory-determined Optimum Moisture Content (OMC) before re-compaction

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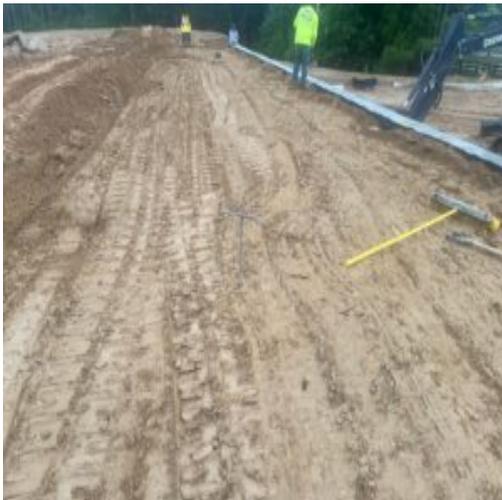
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Thank you for the opportunity to support this project. Should you have any questions or wish to discuss these findings further, please feel free to contact us.



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*Kenneth Mosman*

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